Access in a
BOX

- **Wiegand:** operates on the globally popular wiring standard

- **Convenience:** an easy to use access control system in one neat package

- **Expandable:** out-the-box two doors, scalable to 16 doors with just one controller

Up to **16** doors | **10** languages

WHO SHOULD USE THE ACCESS IN A BOX PRODUCT?

Small to medium businesses wanting additional security and convenience, with the added benefit of being able to quickly scale as your business grows.

PRODUCT BENEFITS

- Security: remove the risk of lost or copied keys
- Languages: ten languages standard off-the-shelf
- Mobility: access your system 24 hours a day through a web page
- Controller: includes embedded software, free of charge, and a single controller can manage up to 16 doors.

Access in a Box provides all the equipment you need to setup a small access control solution – simply add your cabling and locking accessories, and you're ready to go.

Built to grow

The box comes with a system for two doors, but expanding up to 16 doors is easy with our plug-and-play equipment – using the same controller and software – no rip and replace, or re-enrollment here.

Free software

Our controller includes embedded software for you to quickly and easily setup and management of your access control system. Need extra features, download our free Access Portal Basic software, or you can purchase our Access Portal Pro – all seamlessly compatible with Access in a Box.

Anti-pass back (APB)

Impro is one of the world's first to offer APB door mode for smaller installations. Giving you increased security and peace of mind.

Access anytime, anywhere

You can access your system from a web browser 24-hours a day. As long as you have an internet connection on your phone, tablet or computer, you can manage everything remotely.

Easy installation

Simply wire your readers, bring power into the box and you're ready to setup your system in minutes.

Inside the box is a prewired metal housing, which comes standard with a switch mode power supply, fused battery leads and space for an optional 7AH battery.

In addition, the metal housing comes with built-in tamper protection and an external lock.

Languages

The embedded software ships standard with ten languages, including English, French, Spanish, Portuguese and Chinese. Custom translations are also possible.

Specifications
ACCESS IN A BOX

Model name	Access In a box Wiegand	Wiegand module (IPS)	Multi-discipline reader
Part number(s)	HBW901	HMW901	HRW900
Product description	Single cluster controller & wiegand reader module in lockable metal box with power supply, 2 readers, 10 Mifare tags	1x Wiegand reader Module for use in IPS housing	2 x Non-keypad RFID MDR reader
Colour	Black	N/a	Silver Metal with black plastic
Interface	Web based URL user interface	Diagnostic led's	Operation led's and sound
Dimensions (d-w-h)	8.2cm x 38.3cm x 31.3cm [3.22" x 15.1" x22.3"]	5.7cm x 9.9cm x 18.6cm [2.3" x 3.9" x 7.3"]	2.1cm x 4.5cm x 9.7cm [0.8" x 1,8" x 3.8"]
Approximate product weight	4.4 kg [9.7 oz]	300 g [10.5 oz]	15 g (0.53 oz) ea.
Material	Black powder-coated metal	ABS plastic	ABS plastic
Electrical specifications			
Input voltage	88 - 132 VAC or 176 - 264 VAC (manually switched)	12 - 15 VDC polarity sensitive	11 - 14 VDC polarity sensitive
Output voltage	13.8 ± 0.3 VDC	N/A	-
Maximum continuous output current	5A	-	-
Power requirements at 12 VDC, relays off	-	140 mA current 1.7 W power	90 mA current 1.08 W power
Relay power requirements	-	Additional 0,4W per relay in use	-
Power input protection	Meanwell switch mode power supply	Reverse polarity and transient voltage protection	-
Digital input type	-	Eight dry-contact inputs with end of line sensing	-
Relay outputs	-	Four single-pole, double-throw (SPDT) relays with NO, COM and NC contacts	-
Relay contact ratings	-	10 A at 28 VDC 5 A at 220 VDC 12 A at 120 VAC	-
System specifications			
Processor	Arm Cortex M0 operating at 45 MHz		
Memory	4 KB RAM, 48 KB Flash Memory		
Embedded software	Access Portal Lite		
Other specifications			
Card compatibility	125kHz and 13.56MHz RFID tag support	N/A	125kHz and 13.56MHz RFID tag support
Anti-tamper protection	IPS mounted switch	PCB mounted switch	Optical tamper
RTC	1 x 3 V, CR2032 Lithium cell battery. 2 yrs operating life, 5 yrs storage life		
Environmental specifications			
Operating temperature	-25° to +60° C [-13° to +140° F]		
Storage temperature	-40° to +80° C [-40° to +176° F]		
Operating humidity	0 to 95% relative humidity non-condensing (at +40° C / +104° F)		
Environmental rating	IP20	N/A	IP54
Certifications			
CE (EU)	Pending		
UL (US)	On request		
SABS (RSA)	✓		
RoHS	✓		

Access in a
BOX

- **Simple:** all you need for your access control system, in one neat package
- **Time saving:** wire the system and within a few minutes you're ready to go
- **Cost:** enjoy an enterprise style solution at a fraction of the cost

4 doors 1,000 tagholders

WHO SHOULD USE ACCESS IN A BOX?

Ideally suited to small and medium sized premises, to secure up to four doors, such as:

- Offices
- Retail stores
- Mini factory units
- B&Bs
- Residential homes

PRODUCT BENEFITS

- **Security:** no risk of lost or copied keys, and with our anti-cloning credentials you have no worries about the tag being copied
- **Control:** know who's on your premises and quickly add or remove people with just a click
- **Mobility:** access your system no matter the time or location, simply by logging in through a web browser

Access in a Box has all the equipment you need to quickly and easily install an access control solution for up to four doors. Each box contains a cluster controller, reader module, readers and credentials. Just add your cabling and locking accessories and you're ready to go.

Simplified installation

The metal housing comes prewired with your equipment and a switch mode power supply, as well as fused battery leads and space for an optional 7AH battery - this ensures if the power goes out, your access control continues without a problem. It's also a great time saver, as you only need to bring power into the box and wire your readers. Add to that built-in tamper protection and a lock, and you've got a winning combination.

Anti-pass back (APB)

Impro is one of the world's first to offer APB door mode for smaller installations and the system can support up to four APB doors.

Expansion

Expanding the system is just as easy, with our expansion pack or simply purchase the individual units. The choice is yours.

Increased the amount of people using the system? Simply order more credentials as the system will manage up to 1,000 users.

In addition through our true plug-and-play hardware and software, changing anything takes just a few minutes.

No computer necessary

A key innovation of Access in a Box is the embedded software on the controller. This means you don't need a server or even a computer. In addition, our hardware discovery tool does all the hard work for you, making configuration so easy, you'll be done in minutes.

Remote access

No matter where in the world you are if there's an internet connection, you're connected. Access your reports and manage your site 24-hours a day, through the secure web browser on a smart phone, tablet or laptop.

Specifications
ACCESS IN A BOX

Model name	Access In a box S-Series	S-Series module (IPS)	SIR reader
Part number(s)	HBS900	HMS701	HBR900
Product description	Single cluster controller & S-Series reader module in lockable metal box with power supply, four SIR readers, ten S-Series tags	1x S-Series reader Module for use in IPS housing	4 x Non-keypad RFID SIR mullion reader
Colour	Black	N/a	Two-tone grey
Interface	Web based URL user interface	Diagnostic led's	Operation led's and sound
Dimensions (d-w-h)	8.2cm x 38.3cm x 31.3cm [3.22" x 15.1" x22.3"]	5.7cm x 9.9cm x 18.6cm [2.3" x 3.9" x 7.3"]	2.1cm x 4.5cm x 9.7cm [0.8" x 1,8" x 3.8"]
Approximate product weight	5.45 kg [12 lbs]	300 g [10.5 oz]	75.2 g [2.7 oz] ea.
Material	Black powder-coated metal	ABS plastic	ABS plastic
Electrical specifications			
Input voltage	88 - 132 VAC or 176 - 264 VAC (manually switched)	12 - 15 VDC polarity sensitive	11 - 14 VDC polarity sensitive
Output voltage	13.8 ± 0.3 VDC	N/A	-
Maximum continuous output current	10A	-	-
Power requirements at 12 VDC, relays off	-	140 mA current 1.7 W power	90 mA current 1.08 W power
Relay power requirements	-	Additional 0,4W per relay in use	-
Power input protection	Meanwell switch mode power supply	Reverse polarity and transient voltage protection	-
Digital input type	-	Eight dry-contact inputs with end of line sensing	-
Relay outputs	-	Four single-pole, double-throw (SPDT) relays with NO, COM and NC contacts	-
Relay contact ratings	-	10 A at 28 VDC 5 A at 220 VDC 12 A at 120 VAC	-
System specifications			
Processor	Arm Cortex M0 operating at 45 MHz		
Memory	4 KB RAM, 48 KB Flash Memory		
Embedded software	Access Portal Lite		
Other specifications			
Card compatibility	125kHz RFID proprietary encrypted EM4305	N/A	125kHz RFID proprietary encrypted EM4305
Anti-tamper protection	IPS mounted switch	PCB mounted switch	IPS mounted switch
RTC	1 x 3 V, CR2032 Lithium cell battery. 2 yrs operating life, 5 yrs storage life		
Environmental specifications			
Operating temperature	-25° to +60° C [-13° to +140° F]		
Storage temperature	-40° to +80° C [-40° to +176° F]		
Operating humidity	0 to 95% relative humidity non-condensing (at +40° C / +104° F)		
Environmental rating	IP20	N/A	IP51
Certifications			
CE (EU)	Pending		
UL (US)	On request		
SABS (RSA)	✓		
RoHS	✓		

Impro Technologies has over 30 years experience in the access control industry

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